



ICOM

COMMUNICATIONS RECEIVER

IC-R6

A Diverse and Flexible Wideband Scanner



100 kHz — 1309.995 MHz Wideband Coverage*

* Frequency range depends on version. Cannot decode digital modes.

Fast Scanning Speed —

100 Channels per Second * * VFO mode.

**1300 Memory Channels with
PC Programmable Capability**

**Wide Variety of Scan Types for
Searching New Stations**

**Compact, Drip-Resistant Construction
with Large Internal Speaker**

15 Hours of Continuous Receive Capability*

* With rechargeable Ni-MH cells (1400 mAh × 2) using 50 mW external speaker.

OTHER FEATURES

- Built-in audio low pass filter
- ± 1.0 ppm high frequency stability (at 25°C)
- Earphone cord antenna for AM aviation as well as FM broadcast
- Ferrite bar antenna for AM broadcast
- 150mW loud audio with internal speaker
- DTCS and CTCSS tone squelch and reverse tone squelch
- Priority watch function with priority beep function

- Optional CT-17, CI-V level converter for remote control
- PC programmable with optional CS-R6
- Receiver-to-receiver cloning (optional OPC-474 required)
- Auto power OFF (0.5–2 hours and end of busy signal)
- Compact, drip-resistant construction
- Duplex operation monitoring
- Automatic LCD backlight
- Dial speed acceleration

- Built-in RF attenuator
- Auto memory write scan stores the detected frequency, mode and tone into a specified memory
- Reversible up/down buttons and dial knob for volume, frequency, memory channel, scan direction and set mode settings
- Optional new tube earphone, SP-27
- Weather channel receive with weather alert (USA version only)

SPECIFICATIONS

GENERAL

- Frequency coverage : 0.100–1309.995MHz*
(* Cellular blocked in the U.S.A. version.)
- France : 0.100–29.995, 50.200–51.200, 87.500–107.995, 144–148, 430–440, 1240–1300MHz
- Mode : AM, FM, WFM
- No. of memory channels : 1300 regular, 50 scan edges and 200 auto memory write
- Usable temperature range : -10°C to +60°C ; +14°F to +140°F
- Frequency stability : ± 1.0 ppm (at 25°C)
- Tuning steps : 5, 6.25, 8.33*, 9*, 10, 12.5, 15, 20, 25, 30, 50, 100, 125, 200kHz
(* Selectable depending on operating bands.)
- Battery requirement : 2×R6 (AA) size Ni-MH or alkaline cells
- External power supply : 4.5V DC rated (4.5–6.3V with BC-196SA/SD, CP-18A/E)
- Current drain : 130mA typ. (Ext. SP, backlight off)
Rated audio : 65mA typ.
Standby : 30mA typ. (1:4 duty)
Power save : 30mA typ. (1:4 duty)
- Antenna impedance : 50 Ω (SMA)
- Dimensions (W×H×D) : 58×86×29.8 mm;
(Projections not included) 2 $\frac{1}{2}$ ×3 $\frac{1}{2}$ ×1 $\frac{1}{8}$ in
- Weight (approx.) : 200g; 7.1oz

RECEIVER

- Intermediate frequencies : FM, AM : 266.7MHz, 19.65MHz, 450kHz
WFM : 266.7MHz, 19.95MHz, 750kHz
- Sensitivity (except spurious points):
FM : 1.625MHz– 4.995MHz : 0.32 μ V typ.
(12dB SINAD) : 5.000MHz– 29.995MHz : 0.25 μ V typ.
30.000MHz– 117.995MHz : 0.18 μ V typ.
118.000MHz– 246.995MHz : 0.18 μ V typ.
247.000MHz– 469.995MHz : 0.18 μ V typ.
470.000MHz– 832.995MHz : 0.32 μ V typ.
833.000MHz– 1029.995MHz : 0.28 μ V typ.
1030.000MHz– 1309.995MHz : 0.35 μ V typ.
WFM : 76.000MHz– 108.000MHz : 1.1 μ V typ.
(12dB SINAD) : 175.000MHz– 221.995MHz : 1.1 μ V typ.
470.000MHz– 770.000MHz : 1.8 μ V typ.
AM : 0.495MHz– 4.995MHz : 1.3 μ V typ.
(10dB S/N) : 5.000MHz– 29.995MHz : 0.89 μ V typ.
118.000MHz– 136.000MHz : 0.63 μ V typ.
222.000MHz– 246.995MHz : 0.63 μ V typ.
247.000MHz– 329.995MHz : 0.79 μ V typ.
- Selectivity : AM, FM : More than 12kHz/–9dB,
Less than 30kHz/–60dB
WFM : More than 150kHz/–6dB

- AF output power (at 3.0V DC, 10% distortion) :
Internal speaker (16 Ω load) : More than 150mW
External speaker (8 Ω load) : 80mW typ.
- External SP connector : 3-conductor 3.5 (d) mm (1/8")/8 Ω

Applicable U.S. Military Specifications & IP Rating

Standard	Method	MIL 810 F	Procedure
Low Pressure	500.4		I, II
High Temperature	501.4		I, II
Low Temperature	502.4		I, II
Temperature Shock	503.4		I
Solar Radiation	505.4		I
Humidity	507.4		–
Vibration	514.5		I
Shock	516.5		I, IV

Also meets equivalent MIL-STD-810-C, -D and -E.

Ingress Protection Standard

Water : IPX2 (Drip resistant)

Supplied accessories

- Ni-MH cells* • AC adapter, BC-196SA/SD*
- Antenna • Belt clip • Handstrap

(* Not supplied depending on version)

All stated specifications are subject to change without notice or obligation.

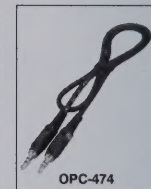
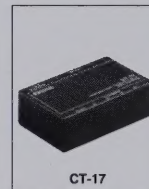
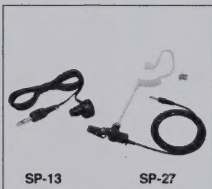
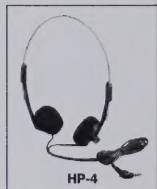
OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

- **BC-196SA/SD AC ADAPTER**
4.5V DC, 400mA output. Allows you to power the IC-R6 and charge the supplied Ni-MH battery cells installed in the IC-R6 in 15 hours (approx.). For exclusive use with the IC-R6 and BC-194 only.
- **BC-194 CHARGER STAND**
Drop-in charger for use with BC-196S or CP-18A/E.
- **CP-18A/E CIGARETTE LIGHTER CABLE**
6V DC, 1.5A output from 12V cigarette lighter socket.

- **HP-4 HEADPHONE**
Light weight monaural headphone.
- **SP-13 EARPHONE**
SP-27 TUBE EARPHONE
Provides clear audio even in noisy environments.
- **LC-146A CARRYING CASE**
Helps protect the receiver from scratches, etc.
- **CT-17 CI-V LEVEL CONVERTER**
For receiver remote control from a PC.

- **CS-R6 CLONING SOFTWARE**
OPC-478 CLONING CABLE (RS-232C cable)
OPC-478UC CLONING CABLE (USB cable)
Use a PC to easily edit stored memory channel data.
- **OPC-474 CLONING CABLE**
Used for receiver-to-receiver data cloning.
- **AD-92SMA ANTENNA CONNECTOR ADAPTER**
Allows you to connect a BNC-type antenna.



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